2/6/87 A8920-5

The Society of the
Plastics Industry, Inc.

SPI

Monthly Statistical Report-Resins

355 Lexington Avenue
New York, New York 10017
(212) 503-0600

FOR THE MONTH AND PERIOD ENDED
NOVEMBER 1986

PRODUCTION AND SALES & CAPTIVE USE OF THERMOSETTING AND THERMOPLASTIC RESINS

ISSUED BY THE
COMMITTEE ON RESIN STATISTICS

AS COMPILED BY ERNST & WHINNEY, WASHINGTON, D.C.

NOTE TO USERS:

PLEASE USE THE FOLLOWING LEGEND WHEN QUOTING DATA FROM THIS REPORT.

SOURCE: SPI COMMITTEE ON RESIN STATISTICS
AS COMPILED BY ERNST & WHINNEY

RELEASE DATE: January 22, 1987

The figures published in this report are reflective of the relevant segment of the industry. In accordance with SPI policy and regulations of the Committee on Resin Statistics, figures will not be published which tend to identify, directly or indirectly, a participant's individual data. Any figures withheld to avoid disclosure are identified by the letter "D" at the applicable line or space of the report. A line will be identified by a "D" if one company has more than 65% of that line, or if there are less than four companies reporting on that line.

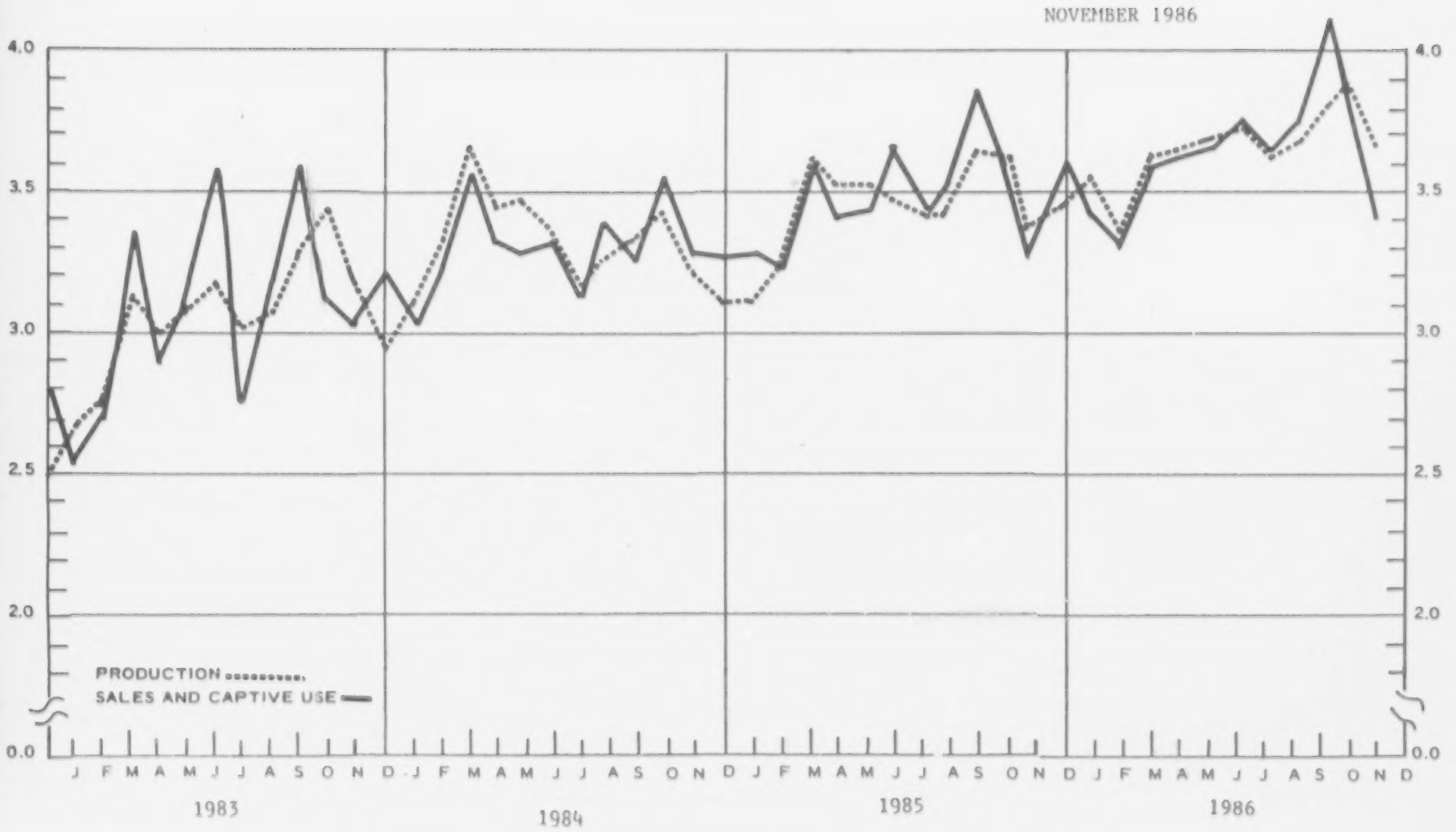
PART 300/400
NON-PART 400/500

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

PRODUCTION AND SALES & CAPTIVE USE OF PLASTIC RESINS

(In billion of pounds)


NOVEMBER 1986
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PRODUCTION
SALES AND CAPTIVE USE
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1983
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1986

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)(1)

NOVEMBER 1986

RESIN KIND	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
EPOXY RESINS, TOTAL	28,079	28,149	- 0.2	349,506R	342,566	+ 2.0	34,229	32,584	+ 5.0	372,715R	350,312	+ 6.4
POLYESTER (UNSATURATED) RESINS, TOTAL	99,110	96,300	+ 2.9	1,177,151	1,148,427	+ 2.5	92,975	91,965	+ 1.1	1,183,540	1,140,351	+ 3.8
UREA RESINS, TOTAL	106,002	97,716	+ 8.5	1,160,126	1,111,297	+ 4.4	106,963	98,319	+ 8.8	1,166,171	1,118,099	+ 4.3
MELAMINE RESINS, TOTAL	15,359	16,011	- 4.1	176,603	179,215	- 1.5	15,188	16,145	- 5.9	161,140	178,318	- 9.6
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	212,395	220,531	- 3.7	2,546,183	2,425,215	+ 5.0	212,979	219,916	- 3.2	2,508,877	2,406,510	+ 4.3
THERMOSETTING RESINS, TOTAL	460,945	456,705	+ 0.9	5,409,569R	5,206,771	+ 3.9	468,434	458,929	+ 2.1	5,392,443R	5,193,590	+ 3.8
LOW DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	642,756	626,892	+ 2.5	8,019,065	8,011,184	+ 0.1	717,464	759,749	- 5.6	8,111,651	8,149,012	- 0.5
HIGH DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	536,893	505,628	+ 6.2	6,371,898	6,013,981	+ 6.0	599,036	514,559	+16.4	6,571,317	6,087,743	+ 7.9
POLYPROPYLENE, TOTAL	453,227	430,650	+ 5.2	5,284,640	4,780,951	+10.6	512,658	439,450	+16.7	5,285,648	4,705,812	+12.3
ACRYLONITRILE BUTADIENE STYRENE (ABS) RESINS, TOTAL	98,726	75,601	+30.6	987,555	933,930	+ 5.7	100,453	83,737	+20.0	994,359	943,952	+ 5.3
STYRENE ACRYLONITRILE (SAN) RESINS, TOTAL	8,067	5,694	+41.7	78,580R	79,268	- 0.8	8,467	6,928	+22.2	81,782	80,548	+ 1.5
POLYSTYRENE RESINS, TOTAL	362,380	327,266	+ 6.6	4,075,430	3,746,818	+ 8.8	381,130	329,060	+15.8	4,055,346	3,696,185	+ 9.7
STYRENE BASED LATEXES, TOTAL **	71,315	62,360	+14.4	796,077	735,885	+ 8.2	76,330	61,660	+23.8	756,183	685,191	+10.5
OTHER STYRENE BASED POLYMERS, TOTAL 40% or more styrene	19,091	23,263	-17.9	258,084	250,277	+ 3.1	23,233	24,629	- 5.7	259,625	254,354	+ 2.1
NYLON RESINS, TOTAL	35,635	34,496	+ 3.3	407,610	370,825	+ 9.9	37,298	32,302	+15.5	427,862	364,892	+17.3
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	591,833	536,366	+10.3	6,752,886R	6,121,781	+10.3	593,260	537,468	+14.6	6,584,944R	6,182,710	+ 6.5
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	50,714	50,225	+ 1.0	640,481R	628,272	+ 1.9	50,714	50,225	+ 1.0	640,481R	628,272	+ 1.9
POLYVINYL ALCOHOL, TOTAL #	D(4)	10,572	n.c.	D(4)	133,712	n.c.	D(4)	7,318	n.c.	D(4)	125,624	n.c.
OTHER VINYL RESINS, TOTAL	13,690	15,691	-12.8	168,444	175,580	- 4.1	14,500	13,537	+ 7.1	177,242	171,195	+ 2.1
THERMOPLASTIC POLYESTER, TOTAL	92,572	79,196	+16.9	1,049,619	869,027	+20.8	99,969	81,995	+21.9	1,061,386	878,028	+20.9
THERMOPLASTIC RESINS, TOTAL	2,956,899	2,783,860	+ 6.2	36,890,369R	32,849,685	+ 6.2	3,216,510	2,922,297	+10.0	35,007,870R	32,956,720	+ 6.2
GRAND TOTAL	3,417,844	3,240,565	+ 5.5	40,299,938R	38,056,456	+ 5.9	3,682,944	3,381,526	+ 8.9	40,400,209R	38,148,310	+ 5.9

(1) - Except phenolic resins which are reported on a gross weight basis

* - These data equal that reported for Sales & Captive Use to more closely represent the ratio between Total Production and Total Sales & Captive Use. Actual production of PVAc is significantly higher than that shown here.

\# - Includes imputed data

** - Sales and Captive Use figures include some Canadian produced material.

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI'S COMMITTEE ON RESIN STATISTICS (CRS)

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(4) - The Publishing of PVOH data is temporarily suspended until further notice.

R - Revision

D - Disclosure

n.c. - Not Comparable

MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
(In millions of pounds, dry weight basis)(1)

NOVEMBER 1986

RESIN KIND	NOVEMBER Production	NOVEMBER Imports	NOVEMBER Exports*	NOVEMBER Apparent Consumption	YEAR TO DATE Production	YEAR TO DATE Imports	YEAR TO DATE Exports*	YEAR TO DATE Apparent Consumption	YEAR TO DATE Import % of Apparent Consumption
EPOXY RESINS, TOTAL	34	2	7	29	373R	16	91	298	5
POLYESTER (UNSATURATED) RESINS, TOTAL	99	1	4	96	1,181	7	26	1,164	1
UREA RESINS, TOTAL	107	3	1	109	1,166	25	3	1,188	2
MELAMINE RESINS, TOTAL	15	0	1	14	161	2	17	146	1
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	213	5	3	215	2,509	39	35	2,513	2
THERMOSETTING RESINS, TOTAL	468	11	16	463	5,392R	89	172	5,109	2
LOW DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	718	55	67	706	8,112	666	788	7,990	9
HIGH DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	599	5	55	549	6,571	39	768	5,842	1
POLYPROPYLENE, TOTAL	513	1	102	412	5,286	23	1,066	4,243	1
ACRYLONITRILE BUTADIENE STYRENE (ABS) RESINS, TOTAL	100	5	8	97	994	64	87	971	7
STYRENE ACRYLONITRILE (SAN) RESINS, TOTAL	9	-	1	8	82	0	13	69	0
OTHER STYRENICS	99	5	8	96	1,016	47	87	976	5
POLYSTYRENE, TOTAL	381	0	7	374	4,055	16	102	3,969	0
NYLON RESINS, TOTAL	37	4	4	37	428	26	59	395	7
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	593	13	28	578	6,585R	196	309	6,422	3
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	51	2	2	51	640R	20	64	596	3
POLYVINYL ALCOHOL, TOTAL	D(4)	-	-	-	D(4)	-	-	-	-
OTHER VINYL RESINS, TOTAL	15	3	5	13	178	35	48	165	21
THERMOPLASTIC POLYESTER, TOTAL	100	1	11	90	1,061	24	119	966	2
THERMOPLASTIC RESINS, TOTAL	3,315	94	298	3,011	35,008R	1,156	3,510	32,654	4
GRAND TOTAL	3,683	105	314	3,474	40,400R	1,245	3,682	37,964	3

(1) Except phenolic resins which are reported on a gross weight basis

(4) The Publishing of FVOH is temporarily suspended

D Withdrawn

R Revision

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Production — SPI Monthly Statistical Report
Imports — Bureau of Census IM 146
Exports — Bureau of Census EM 546

* Bureau of Census exports will differ from the SPI exports as published on pages 4 through 11 of this report

	Import No. (1)	Export No. (2)
Epoxy	409.0200	444.5410/444.5420
Polyester, Unsaturated	409.1000	444.6000
Urea	445.3540	444.5220
Melamine	445.3520	444.5210
Phenolic	409.0600	444.5810/444.5820
Low Density Polyethylene	445.3010	444.1610
High Density Polyethylene	445.3020	444.1620
Polypropylene	445.5200	444.1700
ABS	408.7200	444.2010
SAN	408.8100	444.2020
Other Styrenics	408.7600/408.8450	444.2050
Polystyrene	408.8420	444.2030/444.2040
Nylon	408.6100	444.1210
PVC	445.4600	444.2310/444.2320
Vinyl Acetate	445.4400	444.2120
Polyvinyl Alcohol	445.4200	444.2110
Other Vinyls	445.4800	444.2330
Thermoplastic Polyester	408.6800	444.1500

(1) Tariff Schedules of the U.S. Annotated
(2) Schedule B

SPI

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)

CRS

THERMOSETTING RESINS

November 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
EPOXY RESINS, TOTAL	28,079	28,149	- 0.2	349,506R	342,560	+ 2.0	34,229	32,584	+ 5.0	372,715R	350,312	+ 6.4
Total Exports	5,406	2,873	+88.2	51,931R	38,811	+33.8						
Captive Use, Total	1,080	1,424	-24.2	12,111R	14,239	-14.9						
Domestic Sales, Total	21,593	23,852	- 9.5	285,464R	289,510	- 1.4						
Domestic Sales & Captive Use, Total	22,673	25,276	-10.3	297,575R	303,749	- 2.0						
Bonding & Adhesives	1,452	1,379	+ 5.3	18,139R	16,120	+12.5						
Flooring, Paving & Exposed Aggregate	1,415	1,371	+ 3.2	18,392R	15,748	+16.8						
Protective Coatings	11,172	12,065	- 7.4	150,067R	157,854	- 4.9						
Fiber Reinforced Laminates & Composites, Total	4,726	6,046	-21.8	63,386R	64,342	- 1.5						
FRL&C for Printed Wiring Board	3,259	3,416	- 4.6	43,649R	40,401	+ 8.0						
All Other FRL&C	1,467	2,630	-44.2	19,737R	23,941	-17.6						
Tooling, Casting & Molding Resins	1,505	1,682	-10.5	21,203R	21,776	- 2.6						
All Other Uses	2,403	2,733	-12.1	26,388R	27,909	- 5.4						
POLYESTER (UNSATURATED) RESINS, TOTAL	99,110	94,300	+ 5.1	1,177,151	1,148,479	+ 2.5	99,075	91,965	+ 7.7	1,183,540	1,140,351	+ 3.8
Total Exports	741	544	+36.2	8,704	8,283	+ 5.1						
Total Domestic	98,369	93,756	+ 4.9	1,168,447	1,140,196	+ 2.5						
General Purpose Resins, Total	84,811	81,400	+ 4.2	1,009,947	993,424	+ 1.7						
General Purpose – Thixotropic	38,354	35,589	+ 7.8	449,105	427,870	+ 5.0						
General Purpose – Press Molding	10,370	14,819	-30.0	141,649	149,726	- 5.4						
General Purpose – All Other	36,087	30,992	+16.4	419,193	415,828	+ 0.8						
Flame Retardant Resins	2,079	2,148	- 3.2	23,707	22,298	+ 6.3						
Chemical Resistant Resins	11,479	10,208	+12.5	134,793	124,474	+ 8.3						
Chemical Resistant Isophthalic Resins	9,179	8,014	+14.5	109,116	94,828	+15.3						
All Other Chemical Resistant Resins	2,300	2,194	+ 4.8	25,477	29,646	-14.1						
Reinforced Plastics, Total	74,411	72,429	+ 2.7	881,894	883,742	- 0.2						
Non-Reinforced Plastics, Total	23,958	21,327	+12.3	286,553	256,454	+11.7						

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R Revision

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SPI

SECTION I

CRS

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOSETTING RESINS

(In thousands of pounds, dry weight basis)(1)

NOVEMBER 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
UREA RESINS, TOTAL	106,002	97,714	+ 8.5	1,160,120	1,111,295	+ 4.4	106,963	98,319	+ 8.8	1,166,171	1,118,099	+ 4.3
MELAMINE RESINS, TOTAL	15,359	16,011	- 4.1	176,603	179,219	- 1.5	15,188	16,165	- 5.9	161,140	178,318	- 9.6
UREA & MELAMINE RESINS, TOTAL	121,361	113,725	+ 6.7	1,336,729	1,290,514	+ 3.6	122,151	114,484	+ 6.7	1,327,311	1,296,417	+ 2.4
Total Exports	D	D		D	D							
Total Domestic*	121,361	113,725	+ 6.7	1,336,729	1,290,514	+ 3.6						
Textile Treating & Coating Resins	2,173	1,188	+82.9	19,505	15,928	+22.5	958	1,818	-47.3	22,952	23,607	- 2.8
Paper Treating & Coating Resins	7,491	8,132	- 7.9	89,106	92,311	- 3.5	7,683	9,294	-17.3	90,395	99,219	- 8.9
Molding Compounds	D	D		D	D		D	D		D	D	
Bonding & Adhesive Resins for:	96,738	86,617	+11.7	1,038,747	976,904	+ 6.3	97,885	86,228	+13.5	1,036,099	978,591	+ 5.9
Laminating	3,867	4,019	- 3.8	41,707	42,087	- 0.9	3,667	3,934	- 6.8	39,456	41,751	- 5.5
Plywood	4,737	4,547	+ 4.2	55,372	52,758	+ 5.0	4,913	4,587	+ 7.1	55,884	53,074	+ 5.3
Fibrous & Granulated Wood (Particle Board)	88,134	78,051	+12.9	941,668	882,059	+ 6.8	89,305	77,707	+14.9	940,759	883,766	+ 6.4
Protective Coatings (Straight & Modified)	7,771	7,465	+ 4.1	95,050	83,347	+14.0	8,754	7,023	+24.6	93,745	87,281	+ 7.4
All Other Uses (Includes Molding Compounds, and Exports)	7,188	10,323	-30.4	94,321	122,024	-22.7	6,871	10,101	-32.0	84,120	107,719	-21.9
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	212,395	220,531	- 3.7	2,546,183	2,425,218	+ 5.0	212,979	219,916	- 3.2	2,508,877	2,406,510	+ 4.3
Total Exports	1,160	1,684	-31.1	14,415	19,358	-25.5						
Total Domestic	211,235	218,847	- 3.5	2,531,768	2,405,860	+ 5.2						
Molding Compounds	17,491	17,285	+ 1.2	190,745	194,198	- 1.8	16,071	18,745	- 3.6	198,243	200,938	- 1.3
Bonding & Adhesive Resins for:	189,927	195,762	- 3.0	2,301,213	2,149,523	+ 7.1	290,826	195,632	- 2.5	2,269,203	2,143,259	+ 5.9
Laminating	17,038	11,314	+50.6	185,105	131,380	+40.9	17,005	9,583	+77.4	157,345	115,668	+36.0
Coated & Bonded Abrasives	1,695	1,332	+27.3	17,392	15,220	+14.3	1,704	1,337	+27.4	17,475	15,262	+14.5
Friction Materials	2,619	1,794	+46.0	27,255	24,471	+11.4	2,557	1,609	+58.9	26,319	24,517	+ 7.3
Insulation Materials	31,282	32,548	- 3.9	380,489	382,795	- 0.6	31,488	32,903	- 4.3	373,908	386,027	- 3.1
Foundry & Shell Molding	3,150	6,654	-52.7	38,817	71,618	-45.8	3,283	6,959	-52.8	38,729	74,159	-47.8
Plywood	110,067	108,719	+ 1.2	1,335,367	1,151,048	+16.0	110,354	109,155	+ 1.1	1,335,422	1,151,903	+15.9
Fibrous & Granulated Wood	16,593	19,150	-13.4	227,220	199,804	+13.7	17,836	19,289	- 7.5	232,375	199,756	+16.3
Resins Sold to Rubber Industry	2,462	2,814	-12.5	28,504	26,514	+ 7.5	1,376	3,134	-56.1	25,830	28,573	- 9.6
All Other	5,021	11,437	-56.1	61,064	146,672	-58.4	5,223	11,663	-55.2	61,795	147,194	-58.1
Protective Coatings – Unmodified & Modified	2,110	1,778	+18.7	21,589	21,373	+ 1.0	2,094	1,749	+19.7	21,359	21,366	- 0.0
Resins Sold to Rubber Industry, Non Adhesive Uses #	D	D		D	D		D	D		D	D	
All Other Uses #	1,707	4,022	-57.6	18,221	40,766	-55.3	1,988	3,790	-47.5	20,072	40,947	-51.0

(1) – Except phenolic resins which are reported on a gross weight basis

* – Domestic total includes exports.

\# – Due to disclosure problem, All Other Uses includes Resins Sold to Rubber Industry, Non-Adhesive Uses.

D Disclosure

R Revision

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SECTION I
MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
(In thousands of pounds, dry weight basis)

THERMOPLASTIC RESINS

NOVEMBER 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
LOW DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	642,756	626,892	+ 2.5	8,019,065	8,011,189	+ 0.1	717,464	759,749	- 5.6	8,111,651	8,149,013	- 0.5
Total Exports	65,628	77,257	-15.1	848,8648	1,059,860	-19.9						
Total Domestic	577,128	549,635	+ 5.0	7,170,2018	6,951,329	+ 3.1						
Film (12 Mils & Below)	347,091	334,512	+ 3.8	4,371,1958	4,337,655	+ 0.8						
Sheet (Over 12 Mils)	D(3)	D(3)		D(3)	D(3)							
Injection Molding	49,012	43,238	+13.4	521,9678	530,546	- 1.6						
Wire & Cable	26,292	26,917	- 2.3	312,603	317,134	- 1.4						
Extrusion Coating	49,858	49,976	- 0.2	616,534	591,964	+ 4.2						
Blow Molding	2,503	2,906	-13.9	35,653	42,604	-16.3						
Pipe & Conduit, Total	2,224	950	+135.2	27,416	27,383	+ 0.1						
Corrugated Pipe & Conduit	D	D		D	D							
Non-Corrugated Pipe & Conduit	D	D		D	D							
Other Extruded Products	8,413	12,510	-32.7	103,170	92,284	+11.8						
Resellers & Compounders	41,223	*		543,4288	*							
All Other Uses	50,502	78,626	-35.8	638,235	1,011,759	-36.9						
HIGH DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	536,893	505,628	+ 6.2	6,371,898	6,013,086	+ 6.0	599,034	515,559	+16.4	6,571,317	6,087,741	+ 7.9
Total Exports	75,042	73,592	+ 2.0	795,230	779,933	+ 2.0						
Total Domestic	461,851	432,036	+ 6.9	5,576,668	5,233,153	+ 6.6						
Film (12 Mils & Below)	46,167	39,478	+16.9	451,285	397,509	+13.5						
Sheet (Over 12 Mils)	11,260	11,610	- 3.0	159,846	124,474	+28.4						
Injection Molding	111,017	95,255	+16.5	1,416,966	1,387,221	+ 2.1						
Wire & Cable	9,366	7,714	+21.4	111,954	105,911	+ 5.7						
Extrusion Coating	D(2)	D(2)		D(2)	D(2)							
Blow Molding	200,819	184,038	+ 9.1	2,210,705	2,040,694	+ 8.3						
Pipe & Conduit, Total	26,337	28,565	- 7.8	414,803	439,627	- 5.6						
Corrugated Pipe & Conduit	3,612	2,206	+63.7	136,877	111,812	+22.4						
Non-Corrugated Pipe & Conduit	22,725	26,359	-13.8	277,926	327,815	-15.2						
Other Extruded Products	1,551	1,632	- 5.0	36,482	34,845	+ 4.7						
Resellers & Compounders	31,142	*		461,195	*							
All Other Uses	23,992	63,744	-62.4	313,432	702,872	-55.4						

(2) = Included in Other Extruded Products
(3) = Included in Film
* = 1985 data not available

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MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS (In thousands of pounds, dry weight basis) NOVEMBER 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
POLYPROPYLENE, TOTAL	453,227	430,650	+ 5.2	5,284,640	4,780,053	+10.6	512,658	439,450	+16.7	5,285,648	4,705,812	+12.3
Total Exports	80,063	60,965	+31.3	1,008,622	789,643	+27.7						
Total Domestic	373,164	369,685	+ 0.9	4,276,018	3,990,410	+ 7.2						
Injection Molding	103,171	103,469	- 0.3	1,182,979R	1,170,943	+ 1.0						
Appliances	10,819	9,828	+10.1	117,296R	106,100	+10.6						
Consumer Products	24,495	22,740	+ 7.7	287,590	282,976	+ 1.6						
Rigid Packaging	30,350	30,490	- 0.5	395,924	355,531	+11.4						
Transportation	29,439	30,795	- 4.4	280,608	313,888	-10.6						
All Other Injection Molding	8,068	9,616	-16.1	101,561	112,448	- 9.7						
Blow Molding	7,239	7,194	+ 0.6	95,614	95,575	+ 0.0						
Containers	D	D		D	D							
All Other Blow Molding	D	D		D	D							
Film (10 Mils & Below)	36,139	32,188	+12.3	457,684	355,639	+28.7						
Sheet (Over 10 Mils)	3,776	3,462	+ 9.1	36,515	39,823	- 8.4						
Extrusion Coating	D	D		D	D							
Wire & Cable	D	D		D	D							
Fiber & Filaments	123,227	120,266	+ 2.5	1,367,171	1,302,149	+ 5.0						
Textile Applications	113,444	111,852	+ 1.4	1,257,257	1,205,417	+ 4.3						
Non Textile Monofilaments	9,781	8,414	+16.3	109,914	96,732	+13.6						
Pipe & Conduit	D	D		D	D							
Other Extruded Products #	8,335	7,147	+16.6	91,031	82,145	+10.8						
Resellers & Compounders	76,119	75,975	+ 0.2	884,862R	757,875	+16.8						
All Other Uses	15,158	19,984	-24.1	160,160R	186,211	-14.0						

Includes Extrusion Coating, Wire & Cable, Pipe & Conduit

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SECTION I

CRS

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS

(In thousands of pounds, dry weight basis)

November 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
ACRYLONITRILE BUTADIENE STYRENE (ABS) RESINS, TOTAL	98,726	75,601	+30.6	987,555	933,934	+ 5.7	100,453	83,737	+20.0	994,359	943,952	+ 5.3
Total Exports												
Total Domestic												
Electrical & Electronic Uses												
Pipe, Conduit & Fittings												
Transportation												
Consumer & Institutional												
All Other Uses												
STYRENE ACRYLONITRILE (SAN) RESINS, TOTAL	8,067	5,694	+41.7	78,5808	79,248	- 0.8	8,467	6,928	+22.2	81,782	80,548	+ 1.5
Total Exports	1,543	763	+102.2	10,917	8,331	+31.0						
Total Domestic	6,524	4,931	+32.3	67,663R	70,917	- 4.6						
POLYSTYRENE RESINS, TOTAL	342,380	327,256	+ 4.6	4,075,430	1,746,818	+ 8.8	381,130	329,060	+15.8	4,055,246	3,696,185	+ 9.7
Straight Polystyrene	181,649	171,918	+ 5.7	2,140,266	1,940,476	+10.3	194,355	183,738	+ 5.8	2,155,169	1,952,745	+10.4
Rubber Modified Polystyrene	160,731	155,328	+ 3.5	1,935,164	1,806,342	+ 7.1	186,775	145,322	+28.5	1,900,177	1,743,440	+ 9.0
Total Exports	6,625	4,908	+35.0	98,721	75,377	+31.0						
Straight Polystyrene	5,531	2,954	+87.2	69,406	43,217	+60.6						
Rubber Modified Polystyrene	1,094	1,954	-44.0	29,315	32,160	- 8.8						
Total Domestic	335,755	322,338	+ 4.2	3,976,709	3,671,441	+ 8.3						
Molding	113,199	113,304	- 0.0	1,413,579	1,281,449	+10.3						
Extrusion	157,997	140,959	+12.1	1,785,645	1,583,958	+12.7						
Expandable Polystyrene Beads	39,604	42,221	- 6.2	462,294	471,860	- 2.0						
All Other Uses	24,955	25,854	- 3.5	315,191	334,174	- 5.7						
Polystyrene End Uses, Total**	335,755	322,338	+ 4.2	3,976,709	3,671,441	+ 8.3						
Packaging	92,818	75,383	+23.1	1,008,661	872,647	+15.6						
Disposables	39,366	40,146	- 1.9	509,658	439,841	+15.9						
Consumer and Institutional Products	49,780	45,358	+ 9.7	551,341	600,898	- 8.2						
Electrical/Electronics	36,026	22,643	+59.1	371,701	284,322	+30.7						
Furniture, Furnishings, Building & Construction	21,286	14,116	+50.8	216,231	137,360	+57.4						
Expandable Polystyrene Beads	39,604	42,221	- 6.2	462,294	471,860	- 2.0						
Resellers and Compounders	41,554	40,888	+ 1.6	469,837	485,467	- 3.2						
All Other End Uses	15,321	41,583	-63.2	386,986	379,046	+ 2.1						

** = Portions of the End Use Section are estimated.

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SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)

NOVEMBER 1986

THERMOPLASTIC RESINS

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
STYRENE BASED LATEXES, TOTAL	71,315	62,360	+14.4	796,077	735,883	+ 8.2	76,330	61,640	+23.8	756,183	684,193	+10.5
Paper Treating	4,671	1,331	+40.2	51,243	36,747	+39.4						
Textile Treating	1,940	1,198	+61.9	18,535	15,851	+16.9						
Carpet Backing	24,014	24,235	- 0.9	290,224	284,599	+ 2.0						
All Other Uses (Including Exports & Paper Coating)	40,690	33,596	+21.1	436,075	398,686	+ 9.4						
OTHER STYRENE BASED POLYMERS, TOTAL *	19,091	23,263	-17.9	258,084	250,277	+ 3.1	23,233	24,629	- 5.7	259,625	254,354	+ 2.1
40% or more styrene	D	D		D	D							
Total Export	19,091	23,263	-17.9	258,084	250,277	+ 3.1						
Total Domestic	14,782	18,219	-18.9	206,429	192,453	+ 7.3						
Molding & Extrusion	4,309	5,044	-14.6	51,655	57,824	-10.7						
Coatings												
NYLON RESINS, TOTAL	35,635	34,496	+ 3.3	407,610	370,825	+ 9.9	37,298	32,302	+15.5	427,862	364,892	+17.3
Total Exports	4,098	2,400	+70.7	35,892	22,120	+62.3						
Total Domestic	31,537	32,096	- 1.7	371,718	348,705	+ 6.6						
Injection Molding Grade	20,099	20,944	- 4.0	245,884	230,676	+ 6.6						
Extrusion Grade	9,284	8,290	+12.0	103,397	93,447	+10.6						
Resellers and Compounders	1,334	1,535	-13.1	16,278	16,879	- 3.6						
All Other Uses	820	1,327	-38.2	6,159	7,703	-20.0						

*** Old disclosure rules apply for Styrene Butadiene section. One company cannot be greater than 50% and no two companies can be greater than 75%. For disclosure rules covering other materials, see the back of the cover of the report.

* Exports are included in Total Domestic and Molding & Extrusion.

Styrene Based Latexes sales includes some Canadian produced material.

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MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS (In thousands of pounds, dry weight basis) November 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	November			YEAR TO DATE			November			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	591,833	536,346	+10.3	6,752,886R	6,121,781	+10.3	593,260	517,468	+14.6	6,584,944R	6,182,710	+ 6.5
Homopolymer Resins Including Blending & Latex	541,569	486,093	+11.4	6,197,845R	5,542,684	+11.8	541,356	471,682	+14.8	6,049,629R	5,607,700	+ 7.9
Copolymer Resins Including Blending & Latex	16,798	17,596	- 4.5	188,645	237,044	-20.4	16,940	16,870	+ 0.4	179,949	238,875	-24.7
Dispersion Resins	33,466	32,657	+ 2.5	366,396	342,053	+ 7.1	34,964	28,916	+20.9	355,366	336,135	+ 5.7
Total Exports	33,854	18,812	+80.0	331,599R	260,963	+27.1						
Total Domestic	557,979	517,534	+ 7.8	6,421,287R	5,860,818	+ 9.6						
Calendering, Total	47,874	56,528	-15.3	653,953R	624,695	+ 4.7						
Flooring	11,520	13,153	-12.4	149,816R	146,690	+ 2.1						
Textile	6,653	5,002	+33.0	72,931	63,205	+15.4						
All Other Calendering Uses	29,701	38,373	-22.6	431,206R	414,800	+ 4.0						
Coating, Total	27,925	26,317	+ 6.1	301,988R	276,050	+ 9.4						
Flooring	12,847	10,853	+18.4	131,346R	113,273	+16.0						
Textile & Paper Coating	7,827	8,633	- 9.3	89,431R	84,068	+ 6.4						
Protective Coatings	3,650	3,930	- 7.1	43,247R	42,194	+ 2.5						
Adhesives & All Other Coating Uses	3,601	2,901	+24.1	37,964R	36,515	+ 4.0						
Extrusion, Total	389,453	356,581	+ 9.2	4,459,589R	4,080,422	+ 9.3						
Wire & Cable	33,780	37,014	- 8.7	383,999R	415,313	- 7.5						
Film & Sheet	20,929	19,288	+ 8.5	236,868R	207,202	+14.3						
Siding, Siding Accessories & Mobile Home Skirting	35,919	36,448	- 1.5	480,290R	426,205	+12.7						
Rigid Pipe & Tubing (Except Fittings)	258,845	223,251	+15.9	2,867,800R	2,550,473	+12.4						
All Other Extrusions	39,980	40,580	- 1.5	490,632R	481,229	+ 2.0						
Molding, Total	36,246	36,295	- 0.1	461,298R	428,186	+ 7.7						
Bottles	11,389	14,728	-22.7	178,173R	150,673	+18.3						
Sound Records	6,112	5,195	+17.7	49,538R	61,753	-19.8						
Fittings (Rigid Pipe & Tubing)	11,005	8,189	+34.4	129,833R	148,038	-12.3						
All Other Molding	7,740	8,183	- 5.4	103,754R	67,722	+53.2						
Paste Processes (Except Coating)	12,401	13,664	- 9.2	143,135R	144,627	- 1.0						
Plastisol Formulation	6,205	7,163	-13.4	p9,930R	72,262	- 3.2						
All Other	6,196	6,501	- 4.7	73,205R	72,365	+ 1.2						
Resellers & Compounders	36,721	13,249	+177.2	295,209R	90,335	+226.8						
All Other Uses	7,359	14,900	-50.6	106,115	216,503	-51.0						

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SPI

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

CRS

THERMOPLASTIC RESINS

(In thousands of pounds, dry weight basis)

NOVEMBER 1986

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	NOVEMBER			YEAR TO DATE			NOVEMBER			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	50,714	50,225	+ 1.0	640,481R	628,272	+ 1.9	50,714	50,225	+ 1.0	640,481R	628,272	+ 1.9
Total Exports	207	383	-46.0	5,725R	5,734	-35.0						
Total Domestic	50,507	49,842	+ 1.3	636,756R	622,538	+ 2.3						
Emulsion Paints	15,291	15,851	- 3.5	218,645R	191,441	+14.2						
Adhesives, Caulks and Sealants	19,033	18,222	+ 4.5	236,030R	245,114	- 3.7						
Paper Treating & Paper Coating	9,322	9,037	+ 3.2	100,608R	102,487	- 1.8						
Textile Treating	2,303	2,336	- 1.4	29,514	29,450	+ 0.2						
Non Woven Binders	D	D		D	D							
All Other Uses	4,558	4,396	+ 3.7	51,959	54,046	- 3.9						
POLYVINYL ALCOHOL, TOTAL #	D(4)	10,572	n.c.	D(4)	133,712	n.c.	D(4)	7,318	n.c.	D(4)	[illegible]	n.c.
Total Exports	D(4)	1,718		D(4)	27,218							
Total Domestic	D(4)	8,854		D(4)	106,494							
OTHER VINYL RESINS*, TOTAL	13,690	15,691	-12.8	168,444	175,580	- 4.1	14,500	13,537	+ 7.1	177,242	174,192	+ 2.3
Total Exports	3,681	3,884	- 5.2	46,588	43,600	+ 6.9						
Total Domestic	10,009	11,807	-15.2	121,856	131,980	- 7.7						
*Include only polyvinyl butyral, polyvinyl formal, and polyvinylidene chloride												
THERMOPLASTIC POLYESTER, TOTAL	92,572	79,196	+16.9	1,049,619	869,027	+20.8	99,969	81,995	+21.9	1,061,386	878,028	+20.9
Total Exports	12,448	7,902	+57.5	143,143	103,175	+38.7						
Total Domestic	80,124	71,294	+12.4	906,476	765,852	+18.4						
PET Bottle Grades	58,357	51,206	+14.0	645,659	565,896	+14.1						
All Other Thermoplastic Polyester**	21,767	20,088	+ 8.4	260,817	199,956	+30.4						

** - Includes All Other PET and All Injection Molding Grades

- Includes imputed data

(I) - Included in All Other Uses

(4) - The Publishing of PVOH data is temporarily suspended until further notice.

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D - Disclosure

N.C. - Not Comparable

MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOSETTING & THERMOPLASTIC RESINS

RESIN CODING CLASSIFICATIONS	
EPOXY (UNMODIFIED) RESINS	EPOXY
POLYESTER (UNSATURATED) RESINS	PY
UREA RESINS	UREA
MELAMINE RESINS	MELA
PHENOLIC & OTHER TAR ACID RESINS	PHEN
LOW DENSITY POLYETHYLENE 0.940 & BELOW	LDPE
HIGH-DENSITY POLYETHYLENE ABOVE 0.940	HDPE
POLYPROPYLENE POLYMERS & COPOLYMERS	PP
ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS)	ABS
STYRENE-ACRYLONITRILE (SAN)	SAN
POLYSTYRENE RESINS	PS
STYRENE BUTADIENE LATEXES - carboxylated, 45% styrene content and over	SBL
OTHER STYRENE BASED LATEXES - over 50% styrene including styrene butadiene latexes not carboxylated	OTHER SBL
OTHER STYRENE BASED POLYMERS - over 40% styrene and used in molding and extrusion processes	OTHER SBP
NYLON RESINS	NYLON
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT)	PVC
POLYVINYL ACETATE	PVAc
POLYVINYL ALCOHOL	PVOH
OTHER VINYL RESINS	OTHER VINYL
THERMOPLASTIC POLYESTER	TPY

REPORTING CLASSIFICATIONS	
CATEGORY	CODE
Production	P
Domestic Sales	D
Export Sales	E

Above Legends Refer to the Following List of Reporting Companies by Resin Category.

3/19/87 A8920-5

The Society of the
Plastics Industry, Inc.

SPI

Monthly Statistical Report-Resins

1275 K Street, N.W., #400
Washington, D.C. 20005
(202) 371-5200

FOR THE MONTH AND PERIOD ENDED

DECEMBER 1986

PRODUCTION AND SALES & CAPTIVE USE OF THERMOSETTING AND THERMOPLASTIC RESINS

ISSUED BY THE
COMMITTEE ON RESIN STATISTICS

AS COMPILED BY ERNST & WHINNEY, WASHINGTON, D.C.

NOTE TO USERS:

PLEASE USE THE FOLLOWING LEGEND WHEN QUOTING DATA FROM THIS REPORT.

SOURCE: SPI COMMITTEE ON RESIN STATISTICS AS COMPILED BY ERNST & WHINNEY

RELEASE DATE: February 27, 1987

The figures published in this report are reflective of the relevant segment of the industry. In accordance with SPI policy and regulations of the Committee on Resin Statistics, figures will not be published which tend to identify, directly or indirectly, a participant's individual data. Any figures withheld to avoid disclosure are identified by the letter "D" at the applicable line or space of the report. A line will be identified by a "D" if one company has more than 65% of that line, or if there are less than four companies reporting on that line.

PART 300/400
NON-PART 400/500

SPI

SECTION I

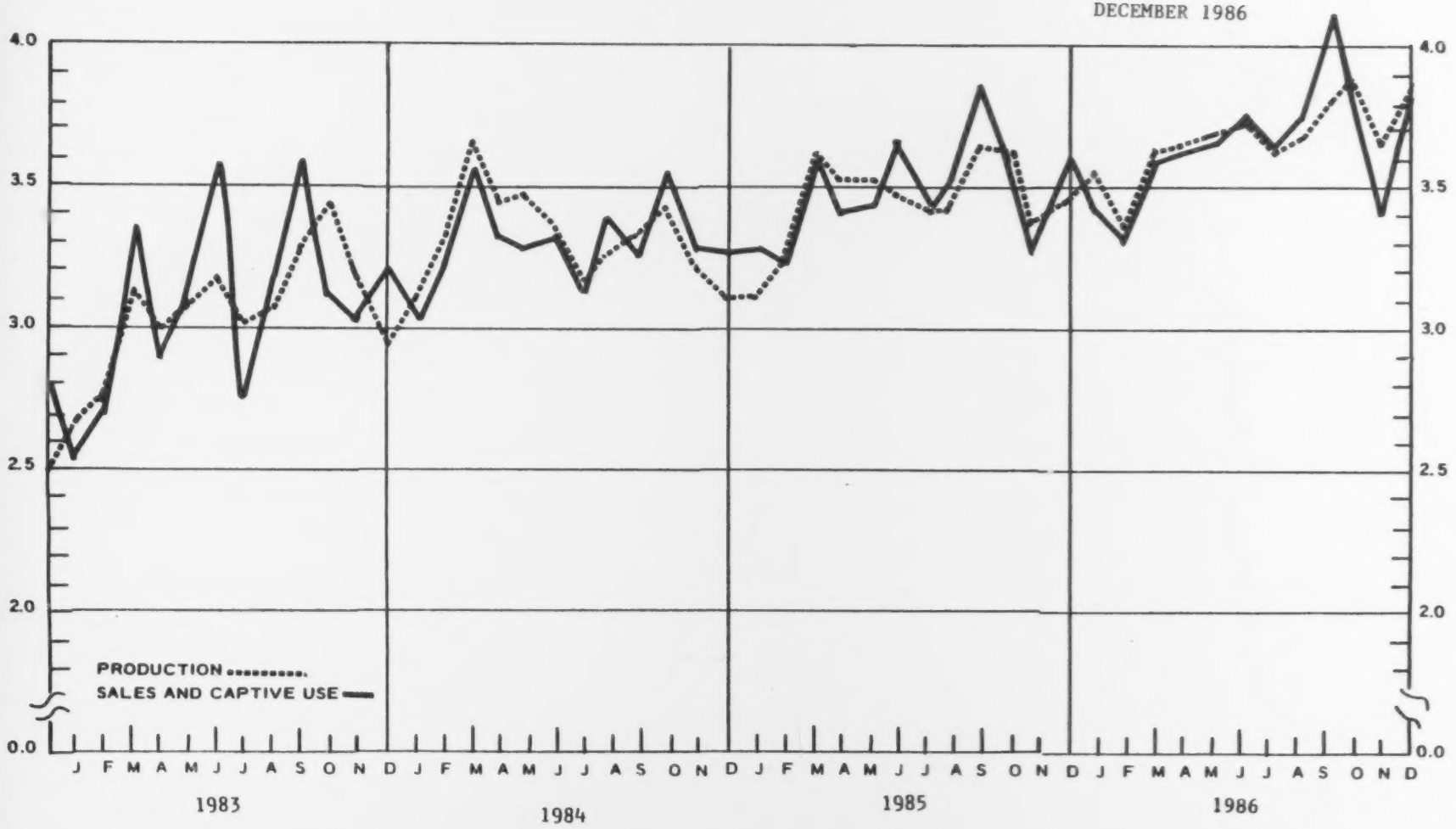
CRS

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

PRODUCTION AND SALES & CAPTIVE USE OF PLASTIC RESINS

(In billion of pounds)


DECEMBER 1986
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PRODUCTION
SALES AND CAPTIVE USE
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1983
1984
1985
1986

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SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)(1)

December 1986

RESIN KIND	SALES & CAPTIVE USE						PRODUCTION					
	December			YEAR TO DATE			December			YEAR TO DATE		
	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change	1986	1985	% Change
EPOXY RESINS, TOTAL	26,299	24,651	+ 6.7	375,135R	367,211	+ 2.2	25,168	34,312	-26.6	397,883	384,624	+ 3.4
POLYESTER (UNSATURATED) RESINS, TOTAL	88,246	84,813	+ 4.0	1,265,397	1,233,292	+ 2.6	87,422	82,278	+ 5.6	1,270,962	1,223,129	+ 3.9
UREA RESINS, TOTAL	105,607	91,336	+15.6	1,265,733	1,202,631	+ 5.2	105,104	91,747	+14.6	1,271,275	1,209,846	+ 5.1
MELAMINE RESINS, TOTAL	14,465	14,920	- 3.0	191,068	194,139	- 1.6	12,333	13,746	-10.3	173,473	192,064	- 9.7
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	211,481	216,879	- 1.6	2,757,664	2,640,097	+ 4.5	212,572	214,590	- 0.9	2,721,449	2,621,100	+ 3.8
THERMOSETTING RESINS, TOTAL	446,098	430,599	+ 3.6	5,854,997R	5,637,370	+ 3.9	442,599	437,173	+ 1.2	5,835,042	5,630,763	+ 3.6
LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	275,288	279,295	- 0.5	8,798,615R	8,790,484	+ 0.0	771,960	740,040	+ 4.3	8,888,158R	8,889,052	- 0.0
HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	655,230	638,007	+ 2.7	7,027,865R	6,651,093	+ 5.7	606,899	583,545	+ 4.0	7,171,157R	6,671,288	+ 7.5
POLYPROPYLENE, TOTAL	540,038	495,056	+ 9.1	5,823,857R	5,275,109	+10.4	524,335	432,770	+21.2	5,811,957R	5,138,582	+13.1
ACRYLONITRILE BUTADIENE STYRENE (ABS) RESINS, TOTAL	92,895	81,667	+13.7	1,080,450	1,015,601	+ 6.4	104,429	84,318	+23.9	1,098,788	1,028,270	+ 6.9
STYRENE ACRYLONITRILE (SAN) RESINS, TOTAL	8,671	4,871	+78.0	87,251	84,119	+ 3.7	9,907	6,879	+44.0	91,689	87,427	+ 4.9
POLYSTYRENE RESINS, TOTAL	387,118	361,219	+ 7.2	4,462,549R	4,108,037	+ 8.6	387,066	357,461	+ 8.3	4,442,004R	4,053,646	+ 9.6
STYRENE BASED LATEXES, TOTAL **	70,483	54,186	+30.1	866,560	790,069	+ 9.7	66,369	51,770	+28.2	822,552	736,163	+11.7
OTHER STYRENE BASED POLYMERS, TOTAL 40% or more styrene	21,806	19,485	+11.9	279,890	269,762	+ 3.8	20,788	18,145	+14.6	280,413	272,499	+ 2.9
NYLON RESINS, TOTAL	35,527	32,025	+10.9	442,873R	402,850	+ 9.9	37,681	34,103	+10.5	465,407R	398,995	+16.6
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	661,052	598,450	+10.5	7,412,471R	6,720,231	+10.3	670,728	589,427	+13.8	7,255,672	6,772,137	+ 7.1
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	49,853	45,904	+ 8.6	690,334	674,176	+ 2.4	* 49,853	* 45,904	+ 8.6	* 690,334	* 674,176	+ 2.4
POLYVINYL ALCOHOL, TOTAL #	D(4)	12,158	n.c.	D(4)	145,870	n.c.	D(4)	12,728	n.c.	D(4)	138,352	n.c.
OTHER VINYL RESINS, TOTAL	11,913	15,857	-24.9	180,357	191,437	- 5.8	17,682	16,504	+ 7.1	194,924	189,699	+ 2.8
THERMOPLASTIC POLYESTER, TOTAL	110,681	86,705	+27.7	1,160,300	955,732	+21.4	113,452	86,647	+30.9	1,174,838	964,675	
THERMOPLASTIC RESINS, TOTAL	3,420,555	3,224,885	+ 6.1	38,313,372R	36,074,570	+ 6.2	3,381,149	3,060,241	+10.5	38,387,893R	36,014,961	+ 6.6
GRAND TOTAL	3,866,653	3,655,484	+ 5.8	44,168,369R	41,711,940	+ 5.9	3,823,746	3,497,414	+ 9.3	44,222,935R	41,645,724	+ 6.2

(1) = Except phenolic resins which are reported on a gross weight basis

* = These data equal that reported for Sales & Captive Use to more closely represent the ratio between Total Production and Total Sales & Captive Use. Actual production of PVAc is significantly higher than that shown here.

\# = Includes imputed data

** = Sales and Captive Use figures include some Canadian produced material.

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI'S COMMITTEE ON RESIN STATISTICS (CRS)

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D = Disclosure

R = Revision

n.c.= Not Comparable

(4) The publishing of PVOH data has been temporarily suspended.